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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,164	11/13/2003	Michelle L. Schlafer	D/A1531	2256
25453	7590	08/09/2005	EXAMINER	
PATENT DOCUMENTATION CENTER XEROX CORPORATION 100 CLINTON AVE., SOUTH, XEROX SQUARE, 20TH FLOOR ROCHESTER, NY 14644			ROYER, WILLIAM J	
			ART UNIT	PAPER NUMBER
			2852	

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/714,164

Applicant(s)

SCHLAFFER ET AL.

Examiner

William J. Royer

Art Unit

2852

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6, 7, 15, 19 and 20 is/are rejected.
- 7) ☒ Claim(s) 4, 5, 8-14 and 16-18 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 November 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 02192004; 03082005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “wire supports” of Claim 19 must be shown or the feature(s) canceled from the claim(s). It is also noted that the “wire supports” do not appear to be identified in the specification. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

In paragraph [0019], line 7, after "photoreceptor" insert --- 10 ---.

In paragraph [0020], lines 1-2, change "photoconductive surface" to ---
photoreceptor 10 ---.

In paragraph [0021], line 6, change "members" to --- rolls 20 and 21 ---.

In paragraph [0023], lines 2 and 6, change "photoconductive surface" to ---
photoreceptor ---.

In paragraph [0023], line 8, change "the chamber" to --- a chamber 76 ---.

In paragraph [0023], line 12, after "chamber" insert --- 76 ---.

In paragraph [0023], lines 13 and 14, after "donor roller" insert --- 40 ---.

In paragraph [0023], line 14, after "magnetic roller" insert --- 46 ---.

In paragraph [0024], line 1, after "donor roller" insert --- 40 ---.

In paragraph [0024], line 3, after "magnetic roller" insert --- 46 ---.

In paragraph [0024], line 5, change "belt" to --- photoreceptor ---.

In paragraph [0024], line 6, change "16" to --- 45 ---.

In paragraph [0025], line 1, change "A" to --- The ---.

In paragraph [0025], lines 3, 5 and 7, after "members" insert --- 42 ---.

In paragraph [0025], lines 5, 7 and 8, after each occurrence of "donor roller"
insert --- 40 ---.

In paragraph [0026], lines 2, 3, 5, 11 and 13, after "members" insert --- 42 ---.

In paragraph [0026], lines 3, 13 and 17, after "donor roller" insert --- 40 ---.

In paragraph [0026], line 4, change "photoconductive member of the donor roller" to --- donor roller 40 ---.

In paragraph [0026], lines 10 and 12, change "photoconductive member" to --- photoreceptor ---.

In paragraph [0026], line 18, after "magnetic roller" insert --- 46 ---.

In paragraph [0027], line 3, after "housing" insert --- 44 ---.

In paragraph [0028], line 2, after "roller" insert --- 40 ---.

In paragraph [0028], line 3, change "member" to --- roller ---.

In paragraph [0032], line 1, change "layer" to --- coating 43 ---.

In paragraph [0033], line 1, after "coating" insert --- 43 ---.

In paragraph [0039], line 1, change "Examples" to --- examples ---.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 6, 7 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Satoh et al. Referring to Figure 1, Saitoh et al disclose a developing roller (i.e., donor member) that includes a cylindrical sleeve 2 (i.e., substrate) and a coating 3. The sleeve being formed of any desired material, which may include metallic materials (col.2, Ins. 35-41). The coating is made from metals, ceramics or metal-ceramic mixtures (i.e. ceramic and metal). Examples of the metal include molybdenum and tungsten.

Claims 1-3 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Aoki et al. Referring to Figure 1, a surface portion of a developing sleeve 100 (i.e., donor member) is shown. The developing sleeve includes a metal member 1 (i.e., substrate) and a ceramic-dispersion-plated metal film (i.e., coating) containing ceramic particles (i.e., ceramic) and metal that is formed on the surface of the metal member. Examples of the material for the metal member include metals such as Al, Cu and stainless steel. Examples of the material for the ceramic particles (i.e., ceramic) include silica, alumina, titania and silica-alumina. Examples of the metal contained in the ceramic-dispersion-plated metal film include Ni, Zn and Cu.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2852

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jaskowiak et al in view of Aoki et al.

Jaskowiak et al disclose an imaging apparatus 10 (i.e., image forming apparatus) for forming images on a copy sheet 62 (i.e., recording medium) comprising: an image bearing member in the form of a belt 12 (i.e., charge retentive surface; surface) to receive an electrostatic latent image thereon; a development apparatus 52 (i.e., development component; apparatus for developing a latent image recorded on a surface) to apply toner to the belt to develop the electrostatic latent image to form a developed image on the belt, the development apparatus comprising a donor roller 154 (i.e., donor member) spaced from the belt and being adapted to transport toner to a

region opposed from the belt, wherein the donor roller comprises a substrate and thereover a coating comprising a ceramic; and electrode wires 155 (i.e., electrode member) positioned in the space between the belt and the donor roller, the electrode wires being closely spaced from the donor roller and being electrically biased to detach toner from the donor roller thereby enabling the formation of a toner cloud in the space between the electrode wires and the belt with detached toner from the toner cloud developing the electrostatic latent image; and a corona generating device 66 (i.e., transfer component) to transfer the developed image from the belt to the copy sheet.

Jaskowiak et al does not disclose a donor roller having a coating comprising ceramic and metal.

Aoki et al disclose a developing sleeve 100 (i.e., donor member) that includes a metal member 1 (i.e., substrate) and a ceramic-dispersion-plated metal film (i.e., coating) containing ceramic particles (i.e., ceramic) and metal that is formed on the surface of the metal member. Examples of the material for the metal member include metals such as Al, Cu and stainless steel. Examples of the material for the ceramic particles (i.e., ceramic) include silica, alumina, titania and silica-alumina. Examples of the metal contained in the ceramic-dispersion-plated metal film include Ni, Zn and Cu.

It would have been obvious to one of ordinary skill in the art at the time the invention was made that the developing sleeve of Aoki et al could be used in place of the donor roll of Jaskowiak et al because both are capable of supplying toner to an electrostatic latent image and because the developing sleeve of Aoki et al is capable of

providing an enhanced developer conveying ability while having excellent durability without carrying out a sand-blast treatment or the like to its surface.

Allowable Subject Matter

Claims 4, 5, 8-14 and 16-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Relevant Prior Art

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Labombard disclose a ceramic donor roll.

Blair et al disclose a donor roll having a glass coating.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Royer whose telephone number is (571) 272-2140. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley can be reached on (571) 272-2136. The fax phone

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



William J. Royer
Primary Examiner
Art Unit 2852

wjr
August 5, 2005